

# ABSTRACT

A semiconductor device comprising a semiconductor  
5 chip having an active and a passive surface; the active  
surface includes an integrated circuit and input/output  
pads suitable for metallurgical contacts. Further, the  
device has a protective plastic film (polyimide, epoxy  
resin, or silicone) of controlled and uniform thickness (20  
10 to 60  $\mu\text{m}$ ) selectively attached to the passive surface. The  
film is suitable to absorb light of visible and ultraviolet  
wavelengths, to remain insensitive to moisture absorption,  
and to exert thermomechanical stress on the chip such that  
this stress at least partially neutralizes the stress  
15 exerted by an outside part after chip assembly.